

**ABSTRACT**

A microwave applicator has a coaxial electrical input and a waveguide filled with dielectric. An inner conductor of the coaxial input extends longitudinally within one end of the waveguide to launch microwaves in the  $TM_{01}$  mode to travel to the distal end face of the waveguide so that microwaves are transmitted when the distal end face is contacted by biological tissue to be treated.